

Message

From: Strynar, Mark [Strynar.Mark@epa.gov]
Sent: 4/7/2020 11:32:15 AM
To: Risen, Amy J [amy.risen@ncdenr.gov]
Subject: Re: [External] Re: EPA 533

Amy,

On sheet 1 row 24 of the spreadsheet you attached you already had the one highlighted in pink yesterday. I was called PES/PFEESA I think. Also just above it was the 1H substituted version called NVHOS.

Mark

Dr. Mark Strynar
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From: Risen, Amy J <Amy.Risen@ncdenr.gov>
Sent: Monday, April 6, 2020 4:30 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: [External] Re: EPA 533

Thanks Mark!

I am also reviewing my current list of analytes and wonder if you can see if you have anything to add. I will also be reviewing the nomenclature, and happy to take any suggestions you might have.

Thanks,
Amy

Amy Risen, PhD
Toxicologist, Division of Waste Management
North Carolina Department of Environmental Quality
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From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Monday, April 6, 2020 1:29 PM
To: Risen, Amy J <Amy.Risen@ncdenr.gov>
Subject: [External] Re: EPA 533

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Hi Amy,

My short answer would be I have no idea why the chemicals that were chosen for this method are the listed ones.

I see the liner versions of PMPA and PEPA (highlighted in yellow) were used. I expect as they could find standards for these analytes. Additionally I think this will evoke some confusion when linear versus branched versions are detected. I know Lam at Chemours has a new method coming out soon to distinguish the branched vs. linear.

For CAS 151772-58-6 (highlighted in blue) I have never detected this analyte in any Chemours sample to my recollection. This analyte that we called PFECA-B was purchased as a surrogate for a paper James McCord and I did when we could not get select standards for the PFECAs we were seeing near Chemours. <https://www.sciencedirect.com/science/article/abs/pii/S0021967318303625> [sciencedirect.com] This was an analyte selected as we could purchase it from Synquest at the time. I have no idea if it has ever been found in any sample.

For the last analyte (highlighted in pink) We did detect this molecule in our most recent paper from Chemours samples. See figure 27 in the SI document. I don't recall if it was a major player or not. https://pubs.acs.org/doi/suppl/10.1021/acs.est.8b06017/suppl_file/es8b06017_si_001.pdf [pubs.acs.org]. We also saw a 1H substituted version of this molecule (see figure 52).

Glad to chat if you want. See cell number below.

Mark

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From: Risen, Amy J <Amy.Risen@ncdenr.gov>
Sent: Monday, April 6, 2020 12:44 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: EPA 533

Hi Mark,

Hope you're well! I have a couple questions about the new EPA 533 method.
<https://www.epa.gov/sites/production/files/2019-12/documents/method-533-815b19020.pdf> [epa.gov]

EPA 533 has a some PFAS that have potential to be associated with the Chemours site. I realize some on the list may be associated with other sites too, but wanted to check on a few things:

- Do you know why the linear versions of the isomers were selected for the ones I've highlighted in yellow? As opposed to CASNs 13140-29-9 and 267239-61-2.
- I thought PFECA-B (see blue highlighting) was no longer thought to be present at this site and wondered if you knew why it was listed?
- There is another ether PFAS (see pink highlighting) that I am unfamiliar with, can you tell me if this is thought to be associated with the Chemours site?

Thanks ☺

Analyte	Abbreviation	CASRN
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Perfluorobutanoic acid	PFBA	375-22-4
Perfluorobutanesulfonic acid	PFBS	375-73-5
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	8:2FTS	39108-34-4
Perfluorodecanoic acid	PFDA	335-76-2
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluoroheptanoic acid	PFHpA	375-85-9
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	4:2FTS	757124-72-4
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Perfluorononanoic acid	PFNA	375-95-1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	6:2FTS	27619-97-2
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorooctanoic acid	PFOA	335-67-1
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluoropentanesulfonic acid	PFPeS	2706-91-4
Perfluoroundecanoic acid	PFUnA	2058-94-8

Amy

Amy Risen, PhD

Toxicologist, Division of Waste Management

North Carolina Department of Environmental Quality

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